

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the Application:

LISTING OF CLAIMS:

1. (Currently amended) In a computerized device, a method for verifying that a module is from an approved vendor, the method comprising the steps of:

obtaining vendor data and a first magic code from a module;

generating a second magic code based on the vendor data; and

outputting a magic code valid signal when the second magic code matches the first magic code, and a magic code invalid signal when the second magic code does not match the first magic code;

wherein the vendor data includes a module serial number, and wherein the step of generating includes the step of:

forming the second magic code based on the module serial number;

and further comprising the steps of:

obtaining a second serial number from a second module; and

outputting a serial number valid signal when the module serial number of the vendor data does not match the second serial number from the second module, and a serial number invalid signal when the serial number of the vendor data matches the second serial number from the second module.

2. (Original) The method of claim 1 wherein the computerized device includes a memory that stores a magic key, and wherein the step of generating includes the steps of:

reading the magic key from the memory of the computerized device; and

forming the second magic code based on the magic key and the vendor data.

3. (Original) The method of claim 2 wherein the step of forming includes the step of:

performing a message-digest algorithm operation on the magic key and the vendor data.

4. (Cancelled)

5. (Cancelled)

6. (Original) The method of claim 1 wherein the vendor data includes a vendor identification number, a character string representing a vendor name, and a module serial number; and wherein the step of generating includes the step of:

forming the second magic code based on the vendor identification number, the character string representing the vendor name, and the module serial number.

7. (Original) The method of claim 6 wherein the computerized device includes a memory that stores a magic key, and wherein the step of forming includes the steps of:

reading the magic key from the memory of the computerized device; and

providing the second magic code based on the vendor identification number, the character string representing the vendor name, the module serial number, and the magic key.

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8. (Original) The method of claim 1 wherein the module is a small form factor pluggable component having a non-volatile memory, and wherein the step of obtaining includes the step of:

reading the vendor data from the non-volatile memory of the small form factor pluggable component.

9. (Original) The method of claim 1 wherein the module is a GBIC communication transceiver component having a non-volatile memory, and wherein the step of obtaining includes the step of:

reading the vendor data from the non-volatile memory of the GBIC communication transceiver component.

10. (Currently amended) A computerized device, comprising:

a module; and

a controller, coupled to the module, which is configured to

obtain vendor data and a first magic code from the module,

generate a second magic code based on the vendor data, and

output a magic code valid signal when the second magic code matches the first magic code, and a magic code invalid signal when the second magic code does not match the first magic code;

wherein the vendor data includes a module serial number, and wherein the controller is configured to generate the second magic code by forming the second magic code based on the module serial number;

and wherein the computerized device includes a second module, and wherein the controller is further configured to:

obtain a second serial number from the second module; and

output a serial number valid signal when the module serial number of the vendor data does not match with the second serial number from the second module, and a serial number invalid signal when the serial number of the vendor data matches with the second serial number from the second module.

11. (Original) The computerized device of claim 10 wherein the controller includes:

a processor; and

a memory, coupled to the processor, that stores a magic key, wherein the processor is configured to generate the second magic code by (i) reading the magic key from the memory, and (ii) forming the second magic code based on the magic key and the vendor data.

12. (Original) The computerized device of claim 11 wherein the processor is configured to form the second magic code by performing a message-digest algorithm operation on the magic key and the vendor data.

13. (Cancelled)

14. (Cancelled)

15. (Original) The computerized device of claim 10 wherein the vendor data includes a vendor identification number, a character string representing a vendor name, and a module serial number, and wherein the controller is configured to generate the second magic code by forming the second magic code based on

the vendor identification number, the character string representing the vendor name, and the module serial number.

16. (Original) The computerized device of claim 15 wherein the controller includes:

a processor; and

a memory, coupled to the processor, that stores a magic key,

wherein the processor is configured to form the second magic code by (i) reading the magic key from the memory of the computerized device, and (ii) providing the second magic code based on the vendor identification number, the character string representing the vendor name, the module serial number, and the magic key.

17. (Original) The computerized device of claim 10 wherein the module is a small form factor pluggable component having a non-volatile memory, and wherein the controller is configured to obtain the vendor data by reading the vendor data from the nonvolatile memory of the small form factor pluggable component.

18. (Original) The computerized device of claim 10 wherein the module is a GBIC communication transceiver component having a non-volatile memory, and wherein the controller is configured to obtain the vendor data by reading the vendor data from the nonvolatile memory of the GBIC communication transceiver component.

19. (Original) A computer program product having instructions stored thereon, the instructions being capable of configuring a computer to:

obtain vendor data and a first magic code from a module;

generate a second magic code based on the vendor data; and

output a magic code valid signal when the second magic code matches the first magic code, and a magic code invalid signal when the second magic code does not match the first magic code;

wherein the vendor data includes a module serial number, and wherein the step of configuring the computer to generate the second magic code includes configuring the computer to:

_____ form the second magic code based on the module serial number;

_____ and wherein the instructions are further capable of configuring the computer to:

_____ obtain a second serial number from a second module; and

_____ output a serial number valid signal when the module serial number of the vendor data does not match the second serial number from the second module, and a serial number invalid signal when the serial number of the vendor data matches the second serial number from the second module.

20. (Original) A small form factor pluggable module, comprising:

operating circuitry;

a memory, coupled to the operating circuitry, that stores vendor data including (i) an error-checking value, and (ii) a non-error-checking magic code which is generated by performing a magic code operation on at least a portion of the vendor data and a magic key.

21. (Cancelled)

22. (Currently amended) A computerized device, comprising:

a module; and

a controller coupled to the module, the controller including:

means for obtaining vendor data and a first magic code from the module,

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means for generating a second magic code
based on the vendor data, and

means for outputting a magic code valid signal
when the second magic code matches the first magic
code, and a magic code invalid signal when the
second magic code does not match the first magic
code;

wherein the vendor data includes a module serial number, and wherein the
means for generating includes:

means for forming the second magic code based on the module
serial number;

and wherein the controller further includes:

means for obtaining a second serial number
from a second module; and

means for outputting a serial number valid
signal when the module serial number of the vendor
data does not match the second serial number from
the second module, and a serial number invalid signal
when the serial number of the vendor data matches
the second serial number from the second module.

23. (New) A method according to claim 1, wherein:

the modules are respective first and second communications transceiver
components;

the vendor data and first magic code are obtained from a non-volatile
memory in the first communications transceiver component;

the vendor data includes data from a vendor name field, a vendor
identification number field, and an error-checking field;

the generating and outputting steps are performed as part of a magic code verification routine upon successful completion of an error-checking routine performed on the vendor data;

and further comprising:

performing the error-checking routine on the vendor data;

if during the magic code verification routine the first magic code does not match the second magic code, then identifying the first communications transceiver component as not being from an approved vendor;

if during the magic code verification routine the first magic code does match the second magic code, then repeating the preceding steps and the steps of claim 1 for the second communications transceiver component;

and further wherein:

the serial number valid signal indicates that the first communications transceiver component has been identified as being from an approved vendor;

the serial number invalid signal indicates that the first communications transceiver component has been identified as not being from an approved vendor; and

the step of outputting the serial number valid signal and serial number invalid signal is performed only if the first magic code matches the second magic code during the magic code verification routine for both the first and second communications transceiver components.

24. (New) A computerized device according to claim 10, wherein:

the modules are respective first and second communications transceiver components;

the vendor data and first magic code are obtained from a non-volatile memory in the first communications transceiver component;

the vendor data includes data from a vendor name field, a vendor identification number field, and an error-checking field;

the controller is configured to generate the second magic code and output the magic code valid signal and magic code invalid signal as part of a magic code verification routine upon successful completion of an error-checking routine performed on the vendor data;

and wherein the controller is further configured to:

perform the error-checking routine on the vendor data;

if during the magic code verification routine the first magic code does not match the second magic code, then identify the first communications transceiver component as not being from an approved vendor;

if during the magic code verification routine the first magic code does match the second magic code, then repeat the preceding steps and the steps of claim 10 for the second communications transceiver component;

and further wherein:

the serial number valid signal indicates that the first communications transceiver component has been identified as being from an approved vendor;

the serial number invalid signal indicates that the first communications transceiver component has been identified as not being from an approved vendor; and

the step of outputting the serial number valid signal and serial number invalid signal is performed only if the first magic code matches the second magic code during the magic code verification routine for both the first and second communications transceiver components.

25. (New) A computer program product according to claim 19, wherein:

the modules are respective first and second communications transceiver components;

the vendor data and magic code are obtained from a non-volatile memory in the first communications transceiver component;

the vendor data includes data from a vendor name field, a vendor identification number field, and an error-checking field;

the generating and outputting steps are performed as part of a magic code verification routine upon successful completion of an error-checking routine performed on the vendor data;

and wherein the instructions are further capable of configuring the computer to:

perform the error-checking routine on the vendor data;

if during the magic code verification routine the first magic code does not match the second magic code, then identify the first communications transceiver component as not being from an approved vendor;

if during the magic code verification routine the first magic code does match the second magic code, then repeat the preceding steps and the steps of claim 19 for the second communications transceiver component;

and further wherein:

the serial number valid signal indicates that the first communications transceiver component has been identified as being from an approved vendor;

the serial number invalid signal indicates that the first communications transceiver component has been identified as not being from an approved vendor; and

the step of outputting the serial number valid signal and serial number invalid signal is performed only if the first magic code matches the second magic code during the magic code verification routine for both the first and second communications transceiver components.

26. (New) A computerized device according to claim 22, wherein:

the modules are respective first and second communications transceiver components;

the vendor data and magic code are obtained from a non-volatile memory in the first communications transceiver component;

the vendor data includes data from a vendor name field, a vendor identification number field, and an error-checking field;

the generating and outputting steps are performed as part of a magic code verification routine upon successful completion of an error-checking routine performed on the vendor data;

and wherein the controller further comprises:

means for performing the error-checking routine on the vendor data;

means operative if during the magic code verification routine the first magic code does not match the second magic code, for identifying the first communications transceiver component as not being from an approved vendor;

means operative if during the magic code verification routine the first magic code does match the second magic code, for repeating the preceding steps and the steps of claim 22 for the second communications transceiver component;

and further wherein:

the serial number valid signal indicates that the first communications transceiver component has been identified as being from an approved vendor;

the serial number invalid signal indicates that the first communications transceiver component has been identified as not being from an approved vendor; and

the outputting of the serial number valid signal and serial number invalid signal is performed only if the first magic code matches the second magic code during the magic code verification routine for both the first and second communications transceiver components.